WHAT IS CLAIMED IS:

- 1. A vertical extending liquid/liquid contacting column comprising:
 - a top and a bottom, connected by walls;
 - a first liquid feed inlet, and a first liquid outlet in the top;
 - a second liquid feed inlet, and a second liquid outlet in the bottom;
 - a plurality of internal trays axially spaced from each other in the column at a tray distance, each tray comprising:
 - a plurality of perforations for the passage of a dispersed phase; and,

more than one downcomer or upcomer for the transport of a continuous phase, each downcomer or upcomer extending respectively below or above the tray, separated from the downcomer or upcomer of the tray above or below by a flow path length and comprising:

walls inclined towards each other in the flow direction of the continuous phase; and, a liquid discharging end.

- 2. The column of claim 1, in which the downcomers or upcomers are rectangular.
- 3. The column of claim 2, in which the rectangular downcomers or upcomers are arranged in a staggered arrangement.

- 4. The column of claim 1, in which the downcomer or upcomer walls are inclined towards each such that a downcomer or upcomer wall will make a 1 to 45 degrees angle with a vertical axis of the column.
- 5. The column of claim 1, in which the liquid discharging end of the downcomer or upcomer further comprises a cover with respective downward or upward directed openings, and wherein said liquid discharge end of a downcomer extends between 30 and 80% of the tray distance below the tray and the liquid discharge end of an upcomer extends between 30 and 80% of the tray distance above the tray.
- 6. The column of claim 1, in which the flow path length is between 0.05 and 0.5 m .
- 7. The column of claim 1, in which the perforations on the tray are sieve openings having a diameter of between 0.004 and 0.025 m and wherein the total area of said perforations is between 2 and 20% of the cross-sectional area of the column.
- 8. The column of claim 1, further comprising a coalescer at the top of the column positioned between the trays and the top liquid outlet, wherein said coalescer comprises structured packing having a higher affinity to the dispersed phase than to the continuous phase.

- 9. The column of claim 1, wherein the column diameter is more than 2 m.
- 10. A method of contacting two substantially immiscible liquid mixtures having different densities and an interfacial tension of between 5-55 dyne/cm in a column comprising:
 - a top and a bottom, connected by walls;
 - a liquid feed inlet, and a liquid outlet in the top;
 - a liquid feed inlet, and a liquid outlet in the bottom;
 - a plurality of internal trays axially spaced from each other in the column at a tray distance, each tray comprising:
 - a plurality of perforations for the passage of a dispersed phase; and,

more than one downcomer or upcomer for the transport of a continuous phase, each downcomer or upcomer extending respectively below or above the tray, separated from the downcomer or upcomer of the tray above or below by a flow path length and comprising:

walls inclined towards each other in the flow direction of the continuous phase; and, a liquid discharging end.

11. The method of claim 10 in which the liquids comprise furfural and a lubricating base oil resulting in the extraction of aromatics.

- 12. The method of claim 10 in which the liquids comprise sulfolane and a hydrocarbon stream resulting in the extraction of aromatics.
- 13. The method of claim 10 in which the liquids comprise phenol and water.
- 14. The method of claim 10 in which the liquids comprise caustic and naphtha.
- 15. The method of claim 10 in which the liquids comprise an acid and the product of an alkylation process.